

All Polynomial Operations #2

Date _____ Period _____

Simplify each expression.

1) $(4r^2 + 4r^3 - 6) + (-7r^3 + 2r^2 + 3r^4)$

2) $(-2n^2 + 4n^3 + n^4) - (7n^2 + 2n^4 - 5n^3)$

3) $(6 + 7n - 7n^4) - (-n^3 + n^4 - 7)$

4) $(-7n^2 + 2n^3 - 4) + (-8n^2 + 3n^3 - 6)$

5) $2(8k + 2)$

6) $4a(-3a^2 - a + 3)$

7) $(-v - 2v^3) + (-5v^4 - 8v^3 + 2v - 5v^2)$

8) $(1 + 7n^4) - (5n^2 + 6n - 6n^4 + 7)$

9) $(4n - 4)(3n - 5)$

10) $(3x - 4)^2$

11) $(8n + 3)(3n + 7)$

12) $(-4x - 5)(6x - 4)$

13) $(-2r^2 + 5 + 5r^4) - (r - 8r^2 - 7 - 7r^4)$

14) $(8r + 8r^3 + 6r^2) + (-r - r^4 + 3r^3 - r^2)$

15) $3(7b^2 - 6b - 2)$

16) $-4x(5x^2 + 2x - 4)$

17) $(-4n + 6)(-8n + 4)$

18) $(-4p + 8)(5p + 8)$